NOVEMBER/DECEMBER 2025

23PCS42 — BLOCK CHAIN TECHNOLOGY

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Differentiate Cryptocurrencies and Blockchain
2. List the different blockchain application providers
3. What is Blockchain Network?
4. Show the various features of Blockchain 2.0.
5. What is Distributed Ledger?
6. Lists any two applications of cryptography.
7. List the advantages of Cryptocurrency.
8. State the Roots of Bitcoin.
9. What are the Opportunities in Block Chain?
10. Lists the Challenges for using blockchain for healthcare data.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss in detail the growth and players of Blockchain Technology.

Or

(b) Narrate Blockchain Platforms and regulators.

12. (a) Illustrate the Distributed Consensus in Blockchain technology.

Or

(b) Describe various Privacy and Security issues in Blockchain.

13. (a) Analyze and write Working procedure of Digital Signature.

Or

(b) Analyze and write working principles of symmetric key Cryptography.

14. (a) Write short notes on Black Market and Stakeholders.

Or

(b) Narrate the Legal views exchange of Crypto currency.

Shanmuga Industries Arts & Science College T.V.Malai

15. (a) Write short notes Healthcare Quality and Healthcare Value in Blockchain.

Or

(b) Describe Data management in industry 4.0 of Blockchain.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the distributed Ledger Technology in Blockchain with neat diagram.

17. Discuss in detail the transition and advancement of Blockchain 3.0.

18. Discuss the Working procedure of Public-Key Cryptography and Peer to Peer Model in detail.

19. Explain supply and demand of Crypto economics with example.

20. Explain future prospects of Block chain in Health 4.0.

———————